



09/507,605

1764

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re: application of) Examiner: Jennifer A. Leung
WEN-CHING YANG et al.)
Serial No. 09/507,605) Art Unit: 1764
Filing Date: February 21, 2000)
Atty Docket RDM 98-002) Entitled:
IMPROVED FLUIDIZED BED
REACTOR DESIGN

January 27, 2003

Eckert Seamans Cherin & Mellott
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RESPONSE AND AMENDMENT

In response to the Office Action dated December 10, 2002, please amend the above-captioned application as follows:

In the specification:

Page 5, starting with first full paragraph through to Page 7, end of first paragraph:

Chlorine is introduced into the fluidized bed reactor of this invention in three different ways. First, approximately 30% of the chlorine is introduced through a primary inlet or central tube 22 which is centrally disposed along the axis of the reactor extending from below the discharge conduit to the lower portion of the reactor bed. Secondly, approximately 5% of the chlorine is introduced through a sparger 30 which encircles the greater portion of the circumference of an upper portion of the residue discharge conduit or collection or cylindrical discharge tube 18, below the housing 12. The sparger 30 introduces the chlorine at a horizontal